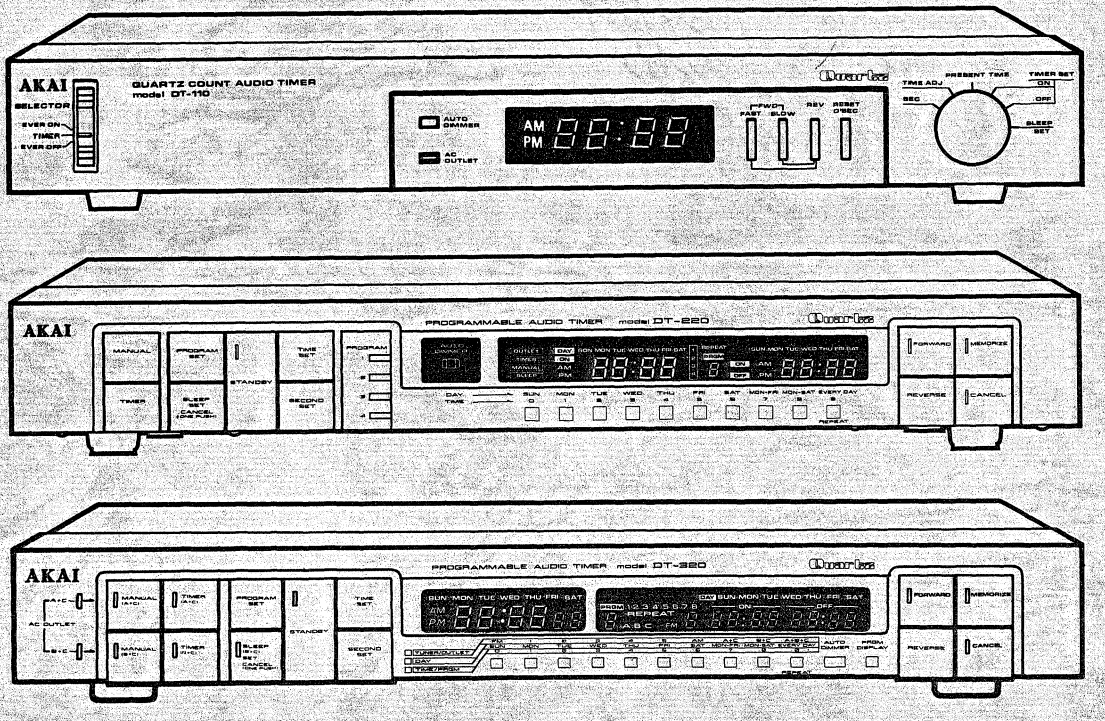
AKAI SERVICE MANUAL



DT-110
DT-220
DT-320

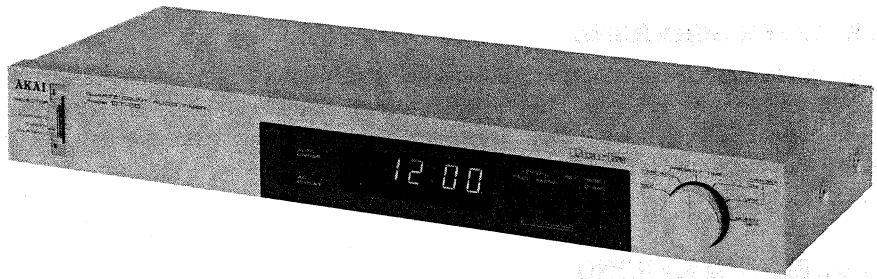
AUDIO TIMER

MODEL DT-110

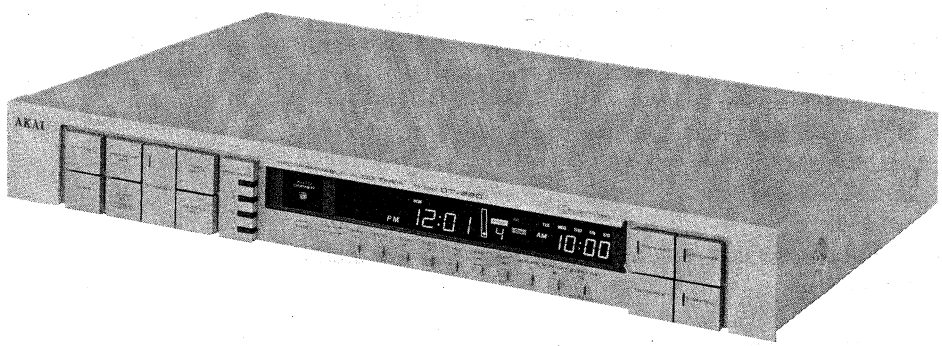
PROGRAMMABLE AUDIO TIMER

MODEL DT-220

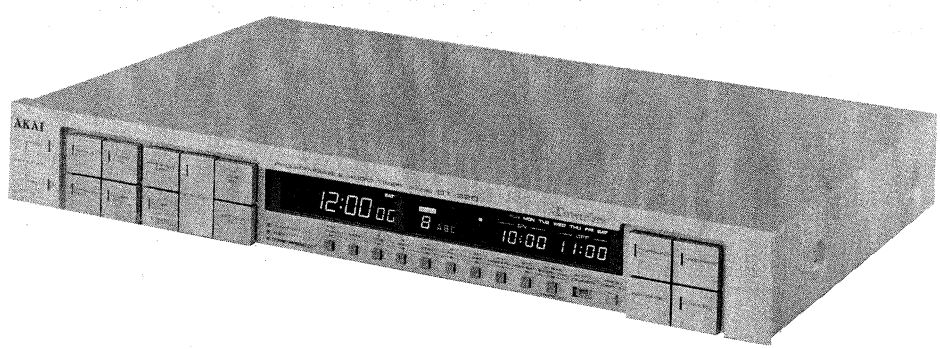
MODEL DT-320



DT-110



DT-220



DT-320

AUDIO TIMER

MODEL DT-110

PROGRAMMABLE AUDIO TIMER

DT-220

MODEL DT-320

THIS MANUAL IS APPLICABLE TO BOTH SILVER
AND PEARL SHADOW PANEL MODELS

SECTION 1 SERVICE MANUAL 3
SECTION 2 PARTS LIST 19
SECTION 3 SCHEMATIC DIAGRAM 28

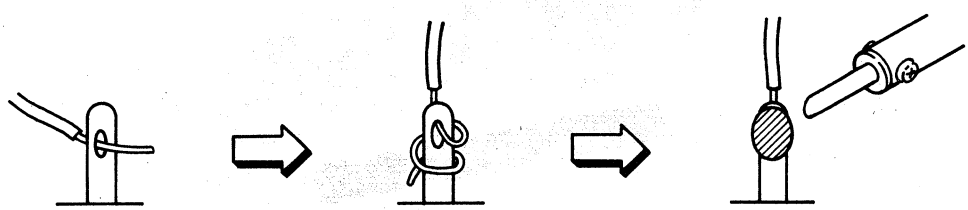
SAFETY INSTRUCTIONS

SAFETY CHECK AFTER SERVICING

Confirm the specified insulation resistance between power cord plug prongs and externally exposed parts of the set is greater than 10 Mohms, but for equipment with external antenna terminals (tuner, receiver, etc.) and is intended for [C] or [A], specified insulation resistance should be more than 2.2 Mohms (ground terminals, microphone jacks, headphone jacks. line-in-out jacks etc.)

PRECAUTIONS DURING SERVICING

1. Parts identified by the ⚠ symbol parts are critical for safety.
   Replace only with parts number specified.
2. In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation. These must also be replaced only with specified replacements.
   Examples: RF converters, tuner units, antenna selector switches, RF cables, noise blocking capacitors, noise blocking filters, etc.
3. Use specified internal wiring. Note especially:
   1) Wires covered with PVC tubing
   2) Double insulated wires
   3) High voltage leads
4. Use specified insulating materials for hazardous live parts. Note especially:
   1) Insulation Tape
   2) PVC tubing
   3) Spacers (Insulating Barriers)
   4) Insulation sheets for transistors
5. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap ends of wires securely about the terminals before soldering.



6. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).
7. Check that replaced wires do not contact sharp edged or pointed parts.
8. Also check areas surrounding repaired locations.
9. Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

SECTION 1

SERVICE MANUAL

TABLE OF CONTENTS

I. **SPECIFICATIONS** 4
1. Model DT-110 4
2. Model DT-220 4
3. Model DT-320 5
II. **CONTROLS** 6
1. Model DT-110 6
2. Model DT-220 7
3. Model DT-320 8
III. **CLOCK FREQUENCY ADJUSTMENT** 9
1. Model DT-110 9
2. Model DT-220 9
3. Model DT-320 10
IV. **COMPOSITION OF VARIOUS P.C BOARDS** 11
1. Model DT-110 11
2. Model DT-220 12
3. Model DT-320 14

I. SPECIFICATIONS

1. Model DT-110

TIMER ACCURACY	±15 seconds within one month
TIMER BASE	Quartz oscillator
TIMER OPERATION ACCURACY	Less than 0.2 seconds
TIMER DISPLAY	24 Hour Display AM/PM 12 Hour Display for Canada only
TIMER SYSTEM	Daily type (turns on and off once)
TIMER SET PERIOD	1 minute to 23 hours and 59 minutes
SLEEP TIME PERIOD	1 minute to 1 hour and 59 minutes
AC OUTLETS	SWITCHED x 2 Total 1200W maximum (for JPN) Total 600W maximum (for other countries)
POWER REQUIREMENTS	100V, 50/60 Hz for JPN 120V, 60 Hz for Canada 110V/120V/220V/240V, 50 Hz/60 Hz for other countries
POWER CONSUMPTION	U, C Model 9W
DIMENSIONS	440 (W) x 57 (H) x 112 (D) mm (17.3 x 2.2 x 4.4 inches)
WEIGHT	1.2 kg (2.6 lbs)

2. Model DT-220

TIME ACCURACY	Within ±15 sec./month (approx. 20°C)
TIME BASE	Quartz Oscillator
TIMER OPERATION ACCURACY	Within +0.02 sec.
TIMER DISPLAY	
ACTUAL TIME DISPLAY	24 Hour notation (for Europe) 24/12 Hour selectable notation (for other countries)
PROGRAM DISPLAY	24 Hour notation
TIMER SYSTEM	Weekly Type (Up to 4 programs)
TIME SET PERIOD	1 min. to 24 hours
SLEEP TIME SET PERIOD	1 min. to 99 min.
DISPLAY	FL Display
AC OUTLET	SWITCHED x 5 Total 200W max (for Europe except UK) SWITCHED x 2 Total 3 Amps max (for UK) Total 600W max (for other countries)
MEMORY BACK UP TIME FOR POWER FAILURE	More than 3 min. (The Battery use 006P, DC 9V)
POWER REQUIREMENT	100V, 50/60 Hz for JPN 120V, 60 Hz for USA and Canada 220V, 50 Hz for Europe 240V, 50 Hz for UK 110V – 120V/220V – 24V, 50/60 Hz for other countries
POWER CONSUMPTION	U Model 15W
DIMENSIONS	440 (W) x 63 (H) x 250 (D) mm (17.3 x 2.5 x 9.8 inches)
WEIGHT	3 kg (8.8 lbs)

3. Model DT-320

TIME ACCURACY	Within ±15 sec./month (approx. 20°C)
TIME BASE	Quartz Oscillator
TIMER OPERATION ACCURACY	Within +0.02 sec.
TIMER DISPLAY ACTUAL TIME DISPLAY PROGRAM DISPLAY	 24 Hour notation (for Europe except UK) 24/12 Hour selectable notation (for other countries) 24 Hour notation
TIMER SYSTEM	Weekly Type (Up to 8 programs)
TIME SET PERIOD	1 min. to 24 hours
SLEEP TIME SET PERIOD	1 min. to 99 min.
DISPLAY	FL Display
AC OUTLET (SWITCHED)	A ×1, B ×1 and C ×3 total 600W max. (for Europe except UK) A ×2, B ×2 and C ×2 total 600W max. (for other countries)
MEMORY BACK UP TIME FOR POWER FAILURE	More than 30 min. (to change: more than 45 hours with the DT-320 turned on.)
POWER REQUIREMENT	100V, 50/60 Hz for JPN 120V, 60 Hz for USA and Canada 220V, 50 Hz for Europe except UK 110V – 120V/220V – 240V, 50/60 Hz for other countries
POWER CONSUMPTION	U, C Model 15W
DIMENSIONS	440 (W) x 63 (H) x 250 (D) mm (17.3 x 2.5 x 9.8 inches)
WEIGHT	4 kg (8.8 lbs)

II. CONTROLS

1. Model DT-110

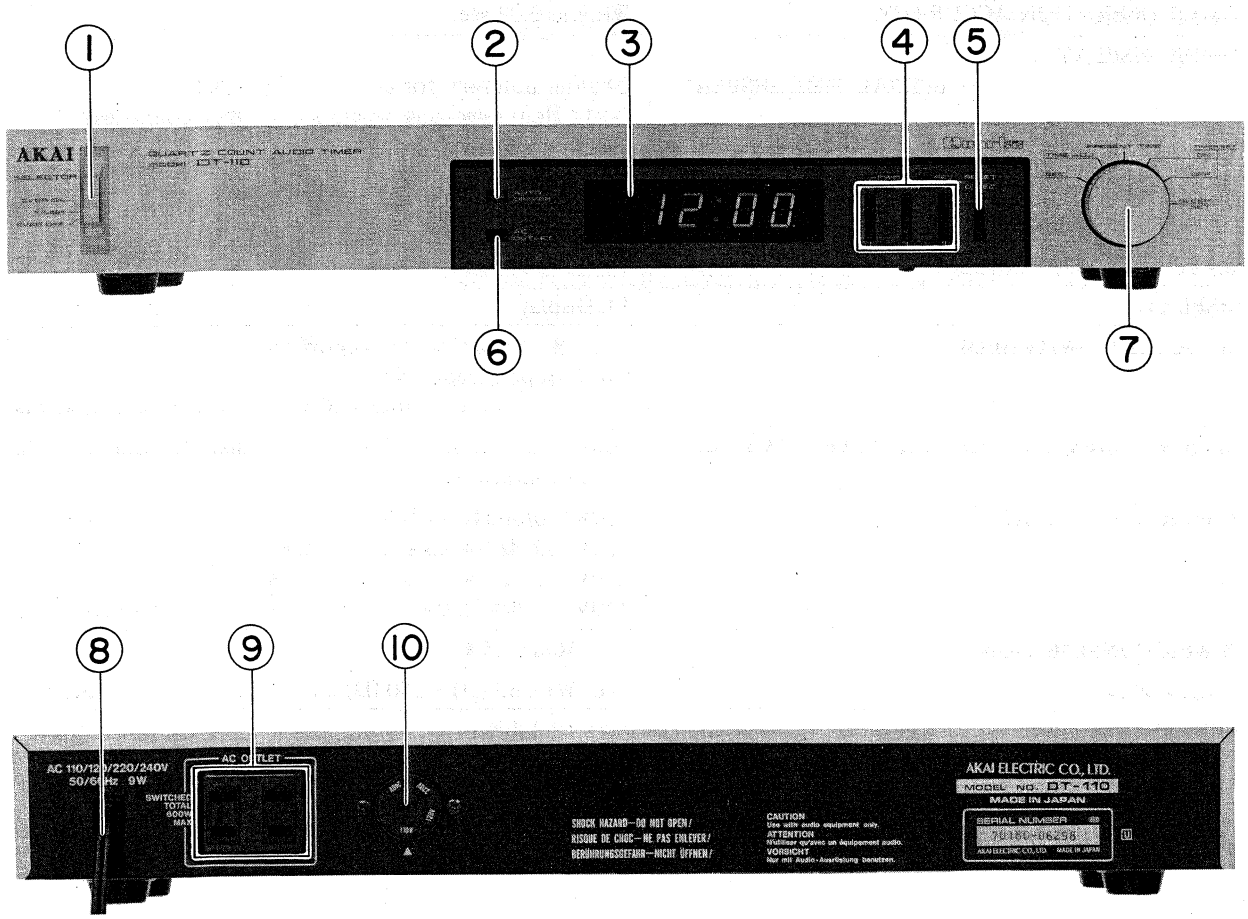


Fig. 1 Controls

1. AC OUTLET SELECTOR
2. AUTO DIMMER SENSOR
3. DIGITAL DISPLAY
4. TIME SETTING BUTTONS
5. RESET O'SEC BUTTON
6. AC OUTLET INDICATOR
7. DISPLAY SELECTOR
8. POWER CORD
9. AC OUTLETS
10. VOLTAGE SELECTOR (Not on some models)

2. Model DT-220

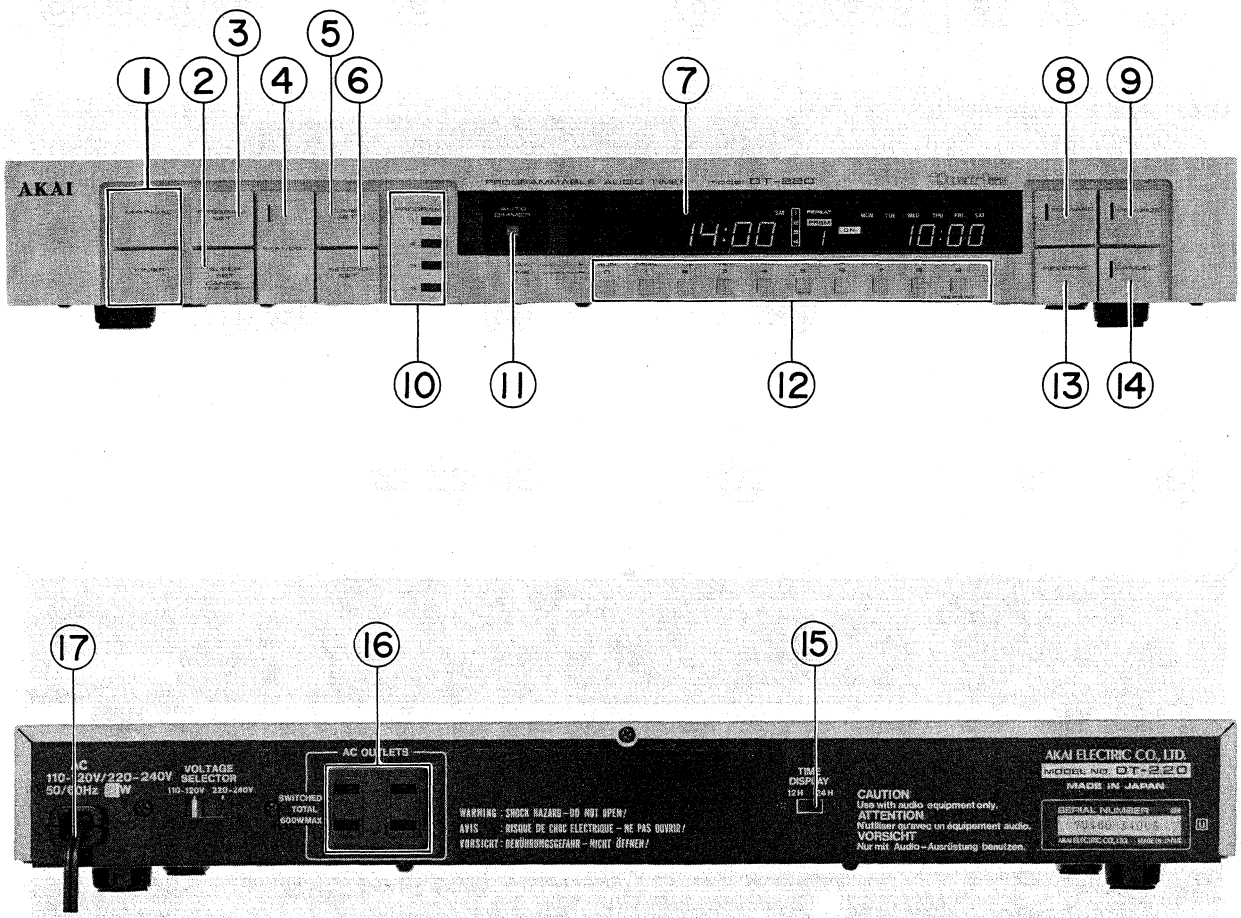
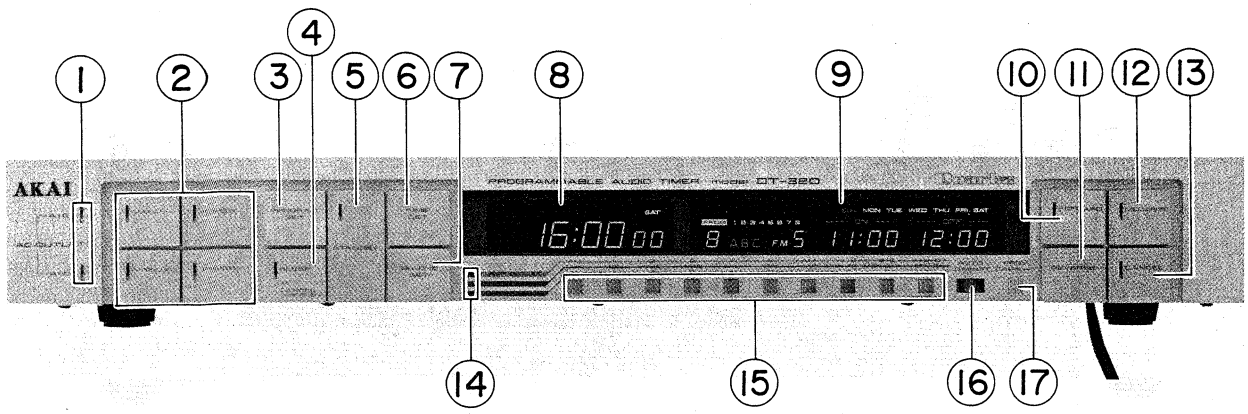
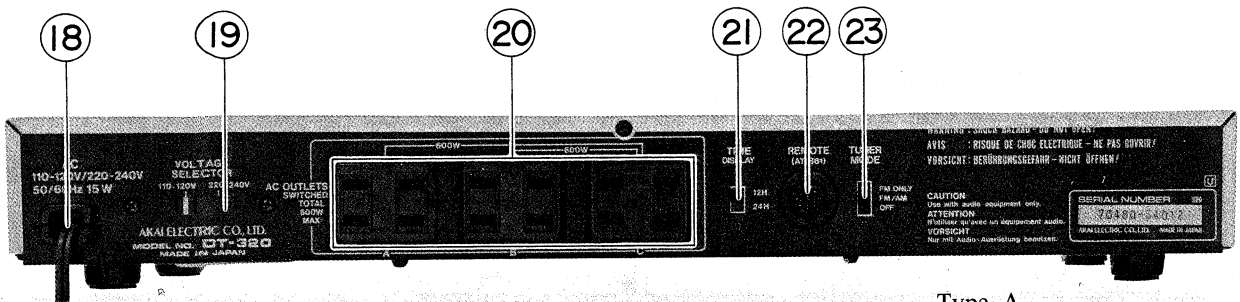


Fig. 2 Controls

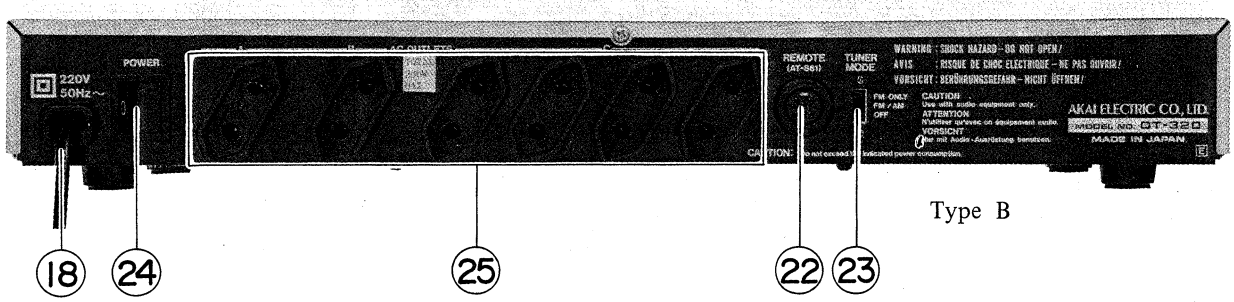
1. AC OUTLET CONTROL KEY
2. SLEEP SET/CANCEL KEY
3. PROGRAM SET KEY
4. STANDBY KEY and INDICATOR
5. TIME SET KEY
6. SECOND SET KEY
7. FL DIGITAL DISPLAY
8. FORWARD KEY and INDICATOR
9. MEMORIZE KEY and INDICATOR
10. PROGRAM SELECT KEY (1~4)
11. AUTO DIMMER SENSOR
12. PROGRAMING KEY
13. CANCEL KEY and INDICATOR
14. REVERSE KEY
15. TIME DISPLAY SELECTOR
16. AC OUTLET (Switched)
17. POWER CORD

3. Model DT-320





Type A



Type B

Fig. 3 Controls

1. AC OUTLET INDICATORS
2. AC OUTLET CONTROL BUTTONS with INDICATORS
3. PROGRAM SET BUTTON
4. SLEEP SET/CANCEL BUTTON with INDICATOR
5. STANDBY BUTTON with INDICATOR
6. TIME SET BUTTON
7. SECOND SET BUTTON
8. ACTUAL TIME DISPLAY
9. PROGRAM DISPLAY
10. FORWARD BUTTON with INDICATOR
11. REVERSE BUTTON
12. MEMORIZE BUTTON with INDICATOR
13. CANCEL BUTTON with INDICATOR
14. PROGRAMMING MODE INDICATORS
15. PROGRAMMING BUTTONS
16. AUTO DIMMER SENSOR
17. PROGRAM DISPLAY BUTTON

Type A Rear Panel

18. POWER CORD
19. VOLTAGE SELECTOR (not on some models)
20. A, B, and C AC OUTLETS (SWITCHED)
21. TIME DISPLAY SELECTOR
    (Some models do not have this facility.)
22. REMOTE JACK
23. TUNER MODE SELECTOR

Type B Rear Panel

24. POWER SWITCH
25. A, B and C AC OUTLETS

III. CLOCK FREQUENCY ADJUSTMENT

1. Model DT-110

Connect an Frequency Counter of ⊕ probe to TP1 and ⊖ probe to TP2. Then adjust TC1 so that Frequency Counter reads 60 Hz.

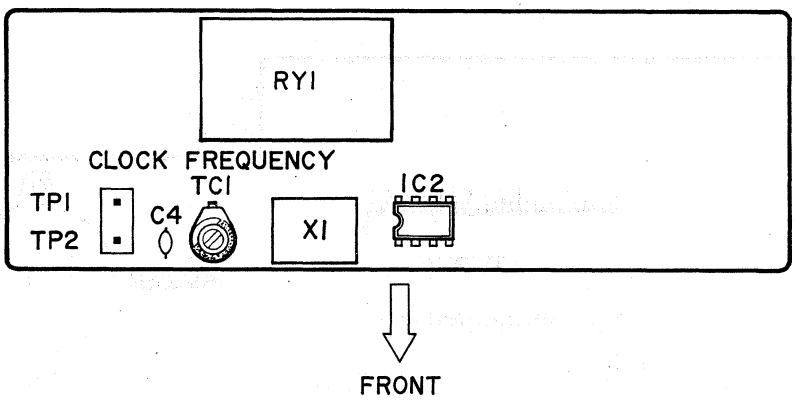


Fig. 4 PCB (1)

2. Model DT-220

Connect an Frequency Counter to TP and GND then adjust C9 so that Frequency Counter reads 349.42 kHz.

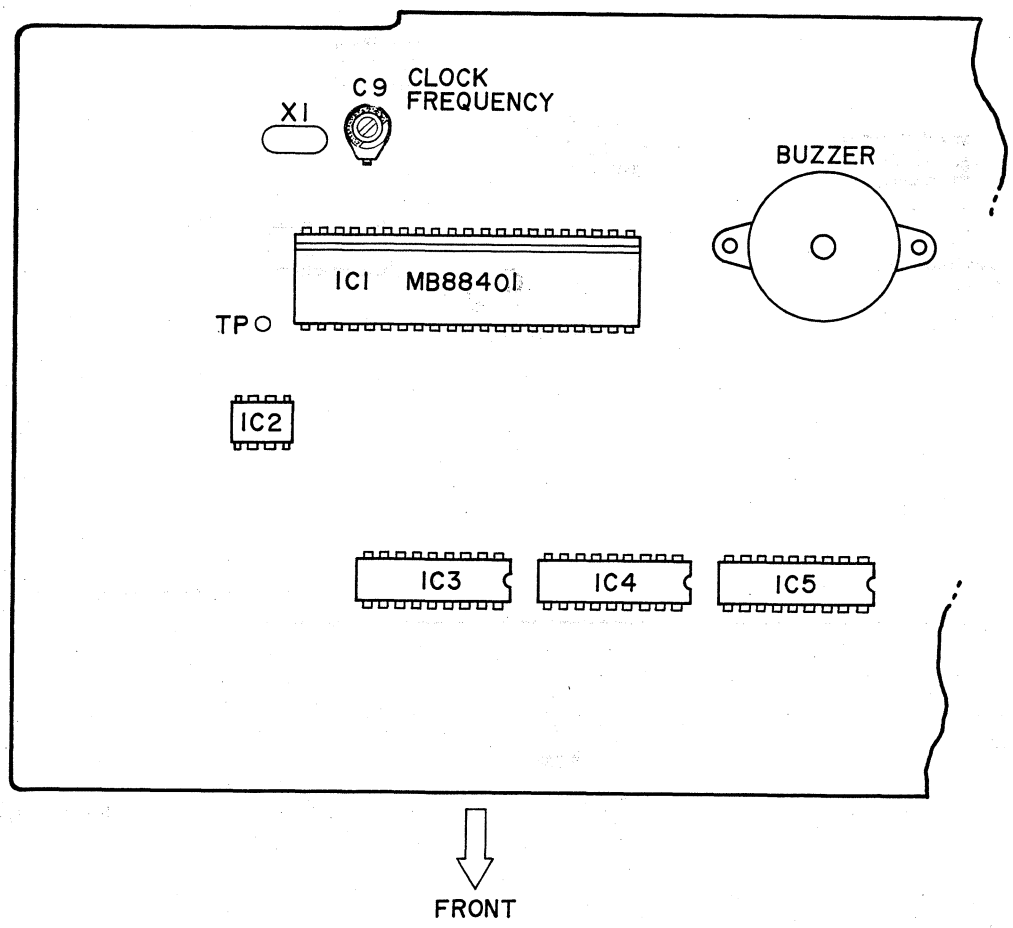


Fig. 5 Main PCB

3. Model DT-320

Connect an Frequency Counter to TP and GND then adjust C1 1 so that Frequency Counter reads 2.096520 MHz.

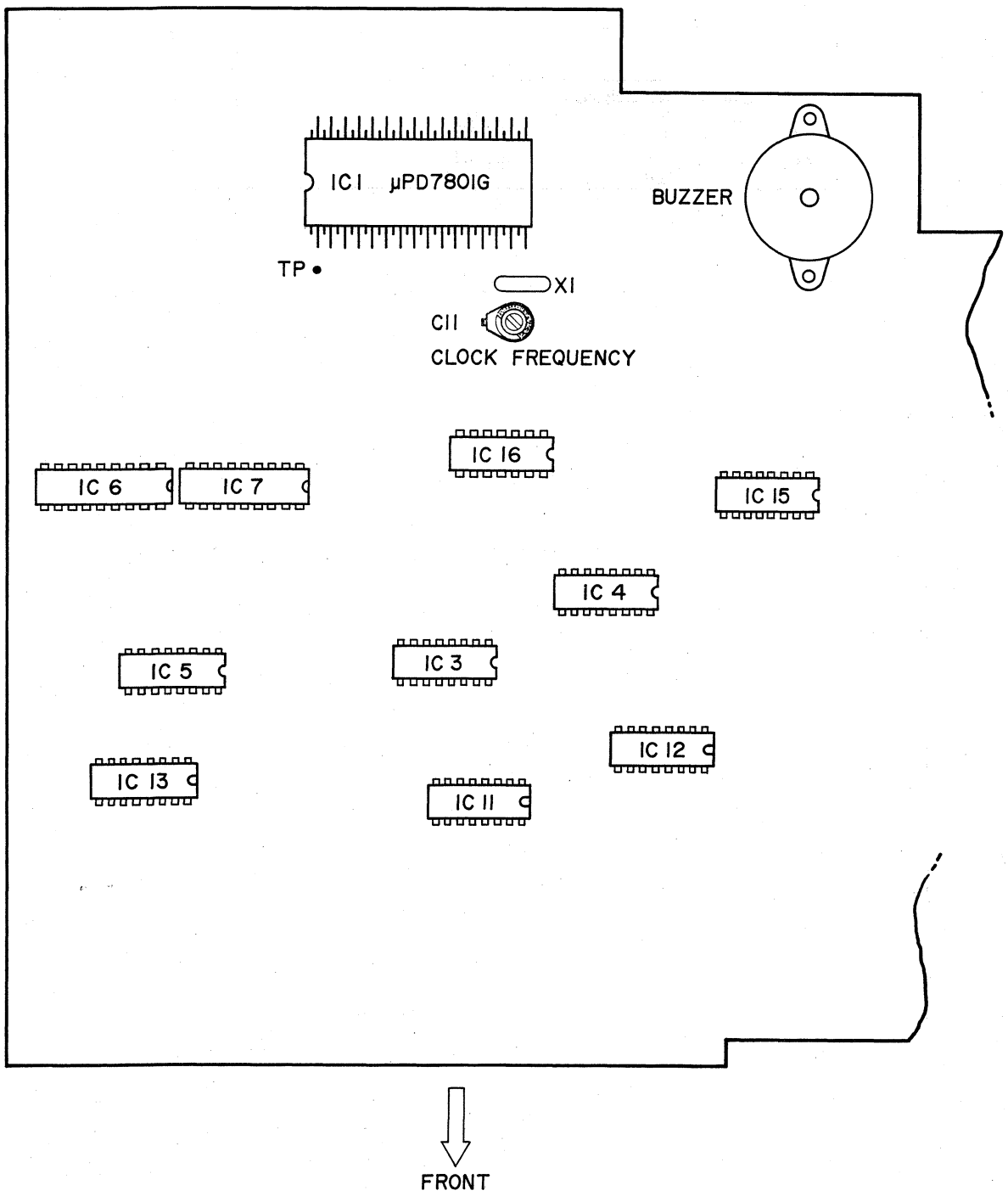
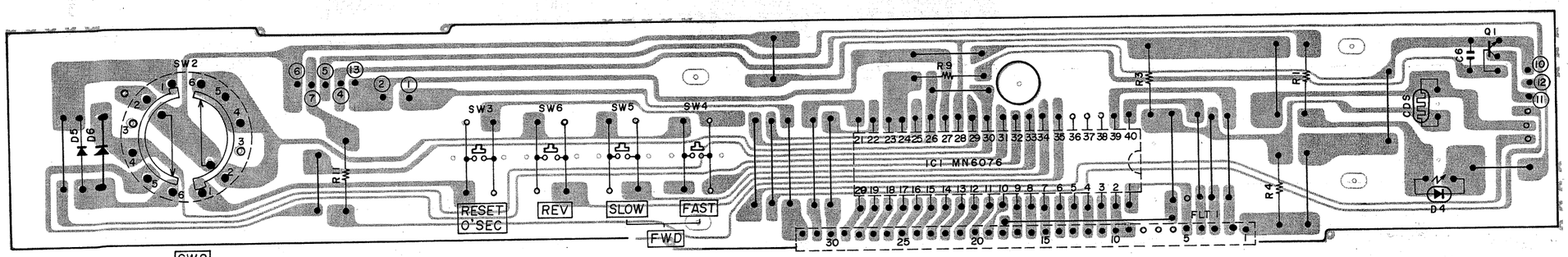


Fig. 6 Main PCB

IV. COMPOSITION OF VARIOUS P.C BOARDS

1. MODEL DT-110

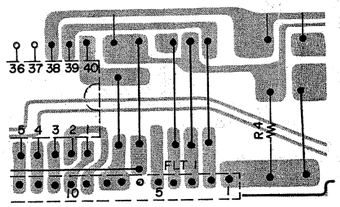
1) PCB (1), (2), (3) CAT-35201



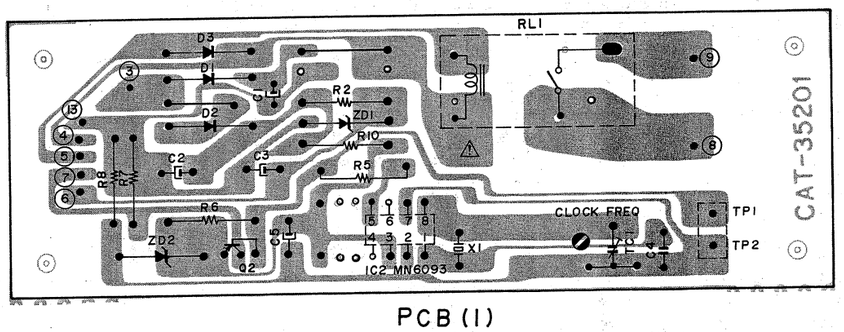
PCB (2)

PCB (3)

SW2
1 SECOND
2 TIME ADJ
3 PRESENT TIME
4 ON ┐TIMER SET
5 OFF┘
6 SLEEP

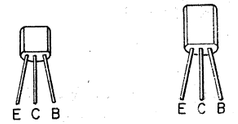


J,C MODEL



PCB (1)

Q1-- 2SC1383N
Q2-- 2SA1015



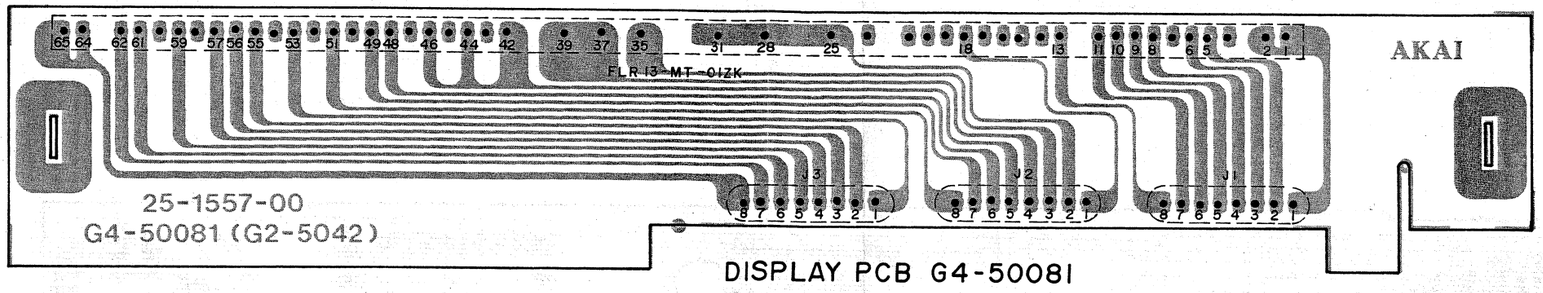
2SA1015 2SC1383N

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

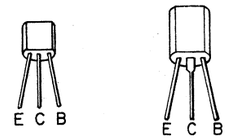
AVERTISSEMENT: ⚠IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT

2. MODEL DT-220

1) MAIN PCB G3-5056, DISPLAY PCB G4-50081

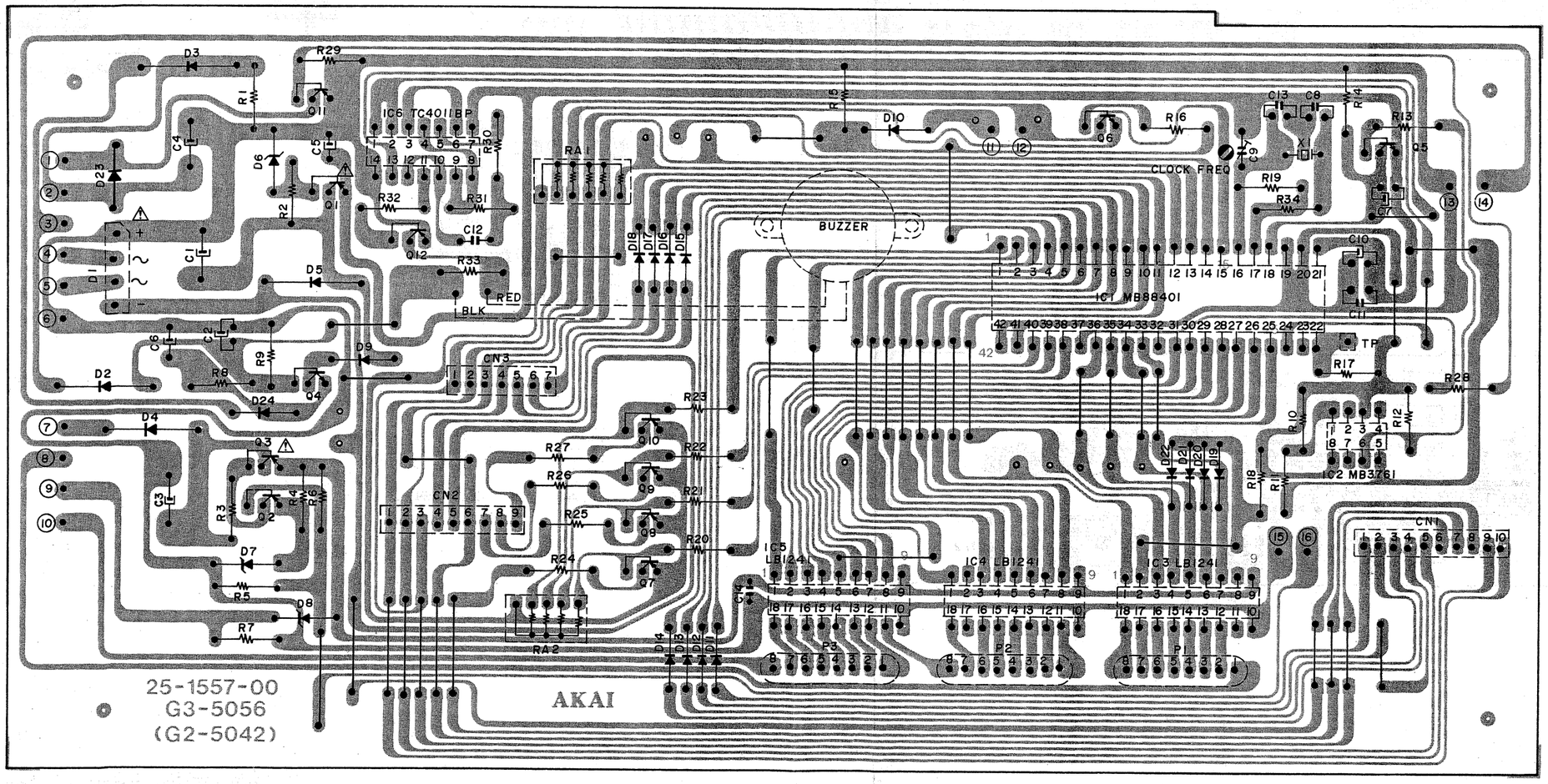


DISPLAY PCB G4-50081



2SA608
2SA984
2SC536
2SC2274

2SB544



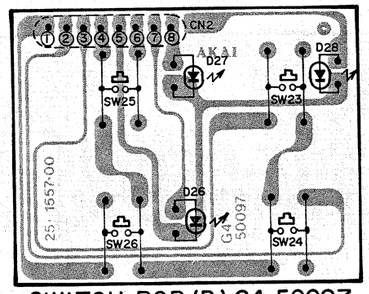
MAIN PCB G3-5056

Q1--2SB544
Q2, 7 to 10, 12--2SA608
Q3, 11--2SA984
Q4--2SC2274
Q5, 6--2SC536

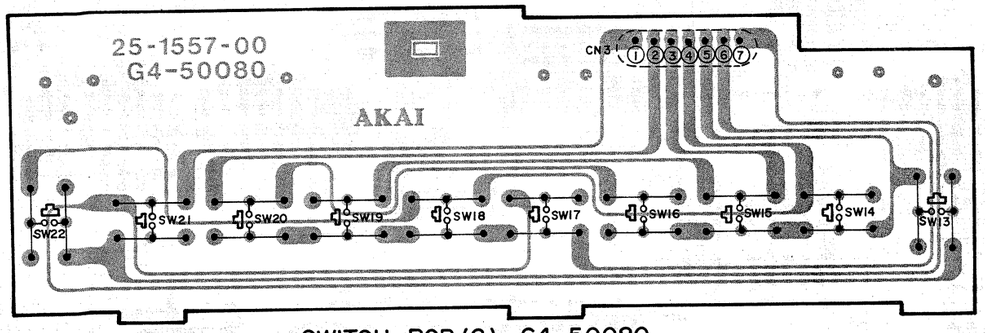
WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER RECOMMENDED PARTS

AVERTISSEMENT: ⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT

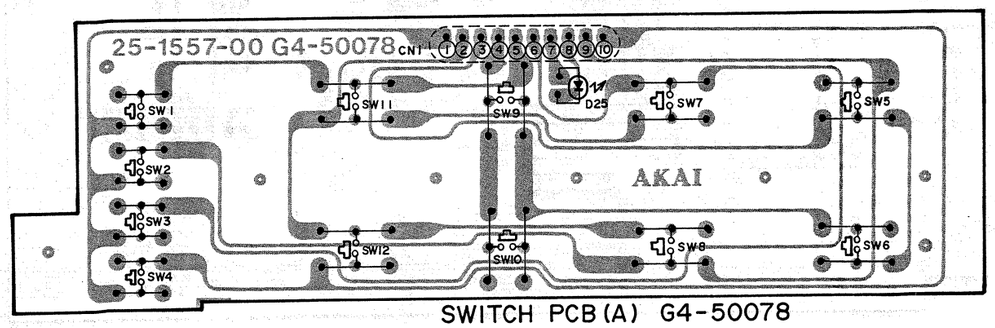
2) SWITCH PCB (A) G4-50078, SWITCH PCB (B) G4-50097, SWITCH PCB (C) G4-50080



SWITCH PCB (B) G4-50097



SWITCH PCB (C) G4-50080



SWITCH PCB (A) G4-50078

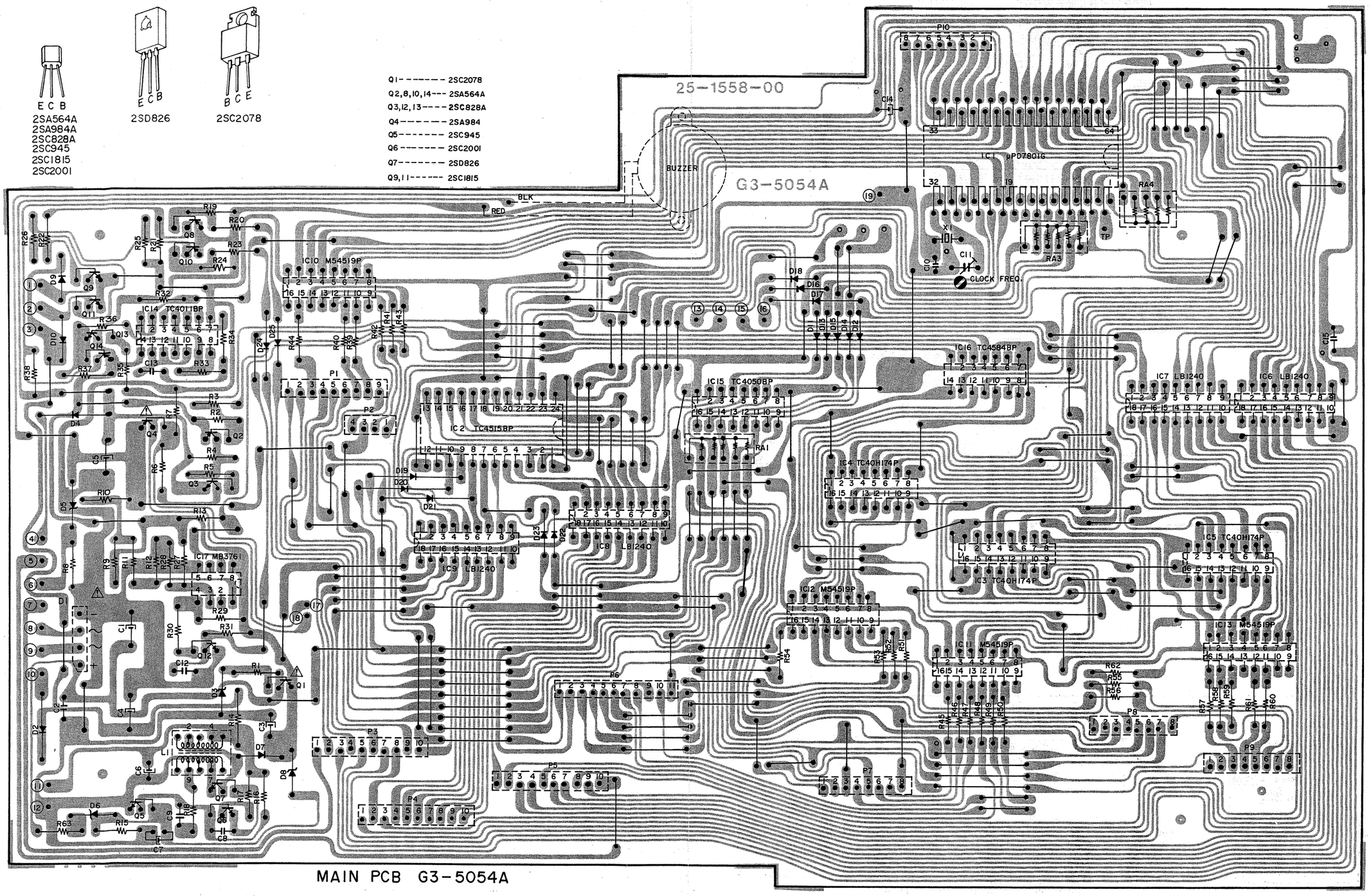
3. MODEL DT–320

1) MAIN PCB G3-5054A

WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

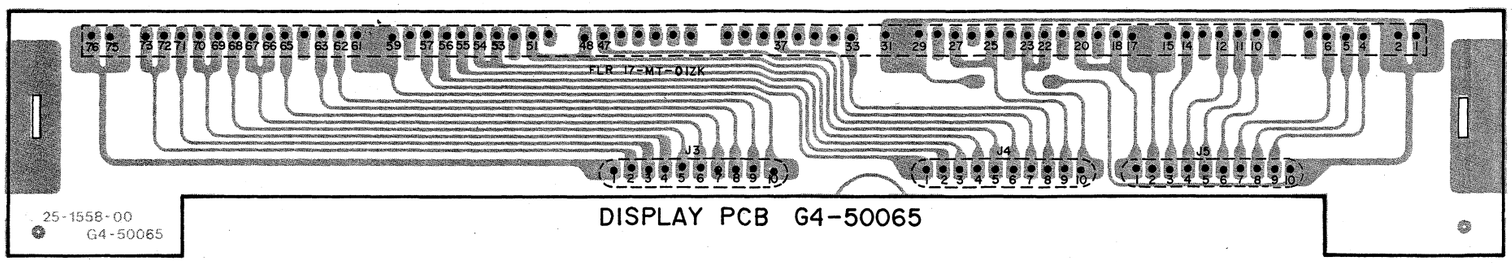
AVERTISSEMENT: ⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT

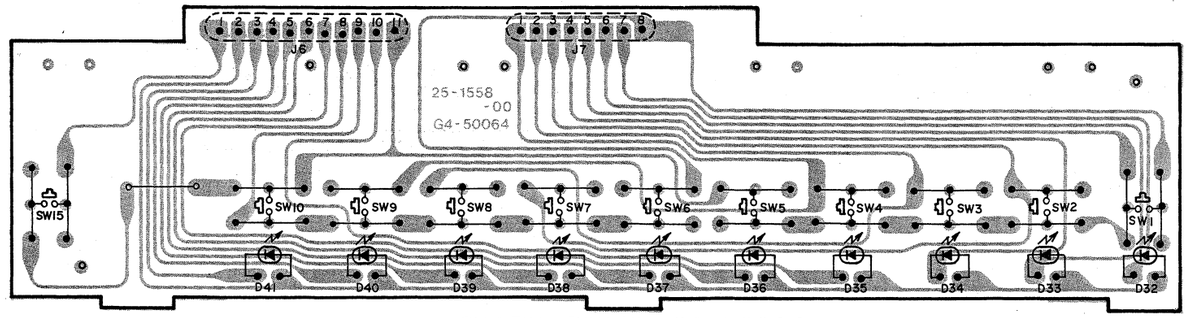
Q1- - - - - - - 2SC2078
Q2,8,10,14- - - 2SA564A
Q3,12,13- - - - 2SC828A
Q4- - - - - - - 2SA984
Q5- - - - - - - 2SC945
Q6- - - - - - - 2SC2001
Q7- - - - - - - 2SD826
Q9,11- - - - - 2SC1815



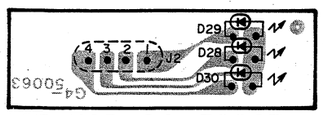
MAIN PCB G3-5054A

2) DISPLAY PCB G4-50065, SWITCH PCB (C) G4-50064

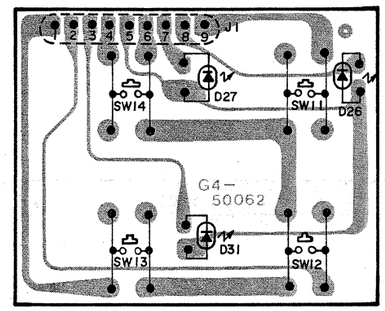




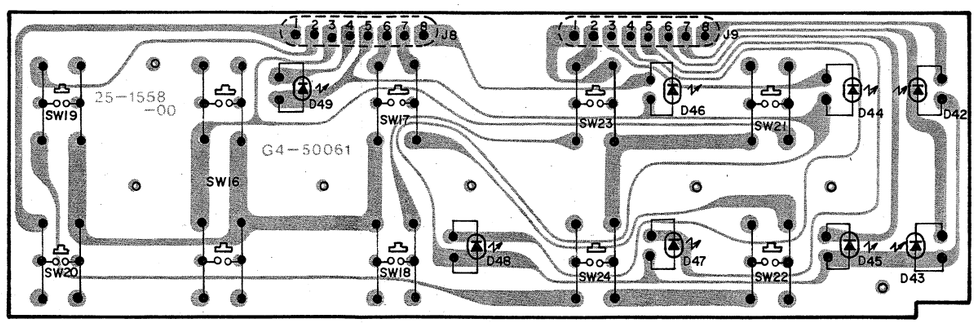
3) SWITCH PCB (A) G4-50061, SWITCH PCB (B) G4-50062, LED PCB G4-50063



LED PCB G4-50063



SWITCH PCB (B) G4-50062



SWITCH PCB (A) G4-50061

MEMO

SECTION 2

PARTS LIST

TABLE OF CONTENTS

I. MODEL DT-110
1. MAIN P.C BOARD BLOCK 21
2. ASSEMBLY BLOCK 21
3. FINAL ASSEMBLY BLOCK 21

II. MODEL DT-220
1. MAIN P.C BOARD BLOCK 22
2. SWITCH (A) P.C BOARD BLOCK 22
3. SWITCH (B) P.C BOARD BLOCK 22
4. SWITCH (C) P.C BOARD BLOCK 22
5. ASSEMBLY BLOCK 22
6. FINAL ASSEMBLY BLOCK 23

III. MODEL DT-320
1. MAIN P.C BOARD BLOCK 24
2. SWITCH (A) P.C BOARD BLOCK 24
3. SWITCH (B) P.C BOARD BLOCK 24
4. SWITCH (C) P.C BOARD BLOCK 24
5. LED P.C BOARD BLOCK 24
6. ASSEMBLY BLOCK 25
7. FINAL ASSEMBLY BLOCK 25

INDEX
1. MODEL DT-110 26
2. MODEL DT-220 26
3. MODEL DT-320 27

Resistor and Capacitor which is not listed in this parts list, please refer to COMMON LIST FOR SERVICE PARTS.

ATTENTION

1. When placing an order for parts, be sure to list the parts no. model no., and description. There are instances in which if any of this information is omitted, parts cannot be shipped or the wrong parts will be delivered.
2. Please be careful not to make a mistake in the parts no. If the parts no. is in error, a part different from the one ordered may be delivered.
3. Because parts number and parts unit supply in the Preliminary Parts List may be partially changed, please use this parts list for all future reference.

HOW TO USE THIS PARTS LIST

1. This Parts List shows the parts that are considered necessary for repairs. Other parts, such as resistors and capacitors, are shown in the "Common List for Service Parts". Select and order such parts from the "Common List for Service Parts".
2. The Recommended Spare Parts shows those parts in the Parts List which are considered particularly important for service.
3. Parts not shown in the Parts List and "Common List for Service Parts" will not be supplied in principle.
4. How to read list

a) Mechanism Block

2. HEAD BASE BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
2-1x	BH-T2023A320A	HEAD BASE BLOCK GX-F66R
2-2	HP-H2206A010A	HEAD R/P PR4-8FU C
2-3	ZS-477876	PAN20x03STL CMT
2-4	ZS-536488	BID20x08STL CMT
2-5	ZG-402895	CS ANGLE ADJUST SPRING

SP (Service Parts) Classification

A small "x" indicates the inability to show that particular part in the Photo or Illustration.

This number corresponds with the individual parts index number in that figure

This number corresponds with the Figure Number

b) P.C Board Block

6. SYS. CON. P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
6-1	BA-T2034A070A	PC SYS CON BLK GX-F44R
6-IC1	EI-324536	IC HD14049BP
6-IC2	EI-336801	IC MB8841-564M
6-IC3	EI-331661	IC SN7405N
6-IC4	EI-336725	IC M54527P
6-TR1to4	ET-200985	TR 2SC2603 F,G
6-TR5to28	ET-554657	TR 2SA733A P,Q
6-D1	ED-318292	D SILICON H 1S2473T-77 T26
6-D2to4	ED-308952	D GERMA V 1K34A-LR F07
6-D5to10	ED-318292	D SILICON H 1S2473T-77 T26
6-X1	EI-318384	OSC X'TAL NC-18C 3.579545MHZ

SP (Service Parts) Classification

This reference numbers corresponds with symbol numbers of Schematic Diagrams.

5. Both the kind of part and installation position can be determined by the Parts Number. To determine where a parts number is listed, utilize Parts Index at end of Parts List. It is necessary first of all to find the Parts Number. This can be accomplished by using the Reference Number listed at right of parts number in the Parts Index.

WARNING

⚠ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

AVERTISSEMENT

⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SURETE. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES COMPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT.

I. MODEL DT-110

1. MAIN P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
1-IC2	EI-708670	IC MN6093
1-TR2	ET-308867	TR 2SA1015 O,Y,GR
1-D1,2	ED-306724	D SILICON S5277B 100/1.0A
1-D3	ED-708669	D SILICON 1S2076A
1-ZD1	ED-706952	D ZENER UZ-15B
1-ZD2	ED-314698	D ZENER H UZ-6.2B
1-TC1	EC-706953	C S-FIX
1-X1	EI-706958	X'TAL HC-18/U
1-RY1	EP-708679	⚠ RELAY AR321173 (U,J)
1-RY1	EP-708681	⚠ RELAY AR32117 (C)
1-RY1	EP-708677	⚠ RELAY AR32118 (E,B,S)
1-IC1	EI-706955	IC MN6076
1-TR1	ET-706954	TR 2SC1383NC
1-D4	ED-322772	D LED SLP-155D-01 RED
1-D5,6	ED-708669	D SILICON 1S2076A
1-CDS	ET-706957	PHOTO SENSOR MKY-76C
1-S2	ES-706960	SW ROTARY SR26N 126-15
1-S3to6	ES-708673	SW TACT KHC-10901
1-FLT1	EM-337179	IND FL 5LT-04Z CHARACTER
1-S1	ES-708672	SW SLIDE SSP04301S
1-F1	EF-708678	⚠ FUSE T-2.5A (E)
1-F1	EF-708683	⚠ FUSE T-3.15A (B)

Symbol For Destination

U : Universal Area
C : Canada
J : Japan
E : Europe
B : UK
S : Australia

2. ASSEMBLY BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
2-1	BT-706965	⚠ TRANS POWER (U/T) (U)
2-2	BT-706964	⚠ TRANS POWER (J)
2-3	BT-708674	⚠ TRANS POWER CAT-35202CS (C)
2-4	BT-708675	⚠ TRANS POWER CAT-35202CE (E)
2-5	BT-708676	⚠ TRANS POWER CAT-35202SA (B,S)
2-6	EW-306428	⚠ AC CORD 2 CORES KP-205A, VFF J ((U)
2-7	EW-306427	⚠ AC CORD 2 CORES KP-211, VFF J (J)
2-8	EW-305691	⚠ AC CORD 2 CORES KP-8, SPT-1 UC
2-9	EW-313882	⚠ AC CORD 2 CORES KP-419C, LTCE-2F E (E)
2-10	EW-313884	⚠ AC CORD 2 CORES GTBS-2F 24/0.20×2 B (B)
2-11	EW-201515	⚠ AC CORD 2 CORES KP-560, LTSA-2F S (S)
2-12	EZ-706966	CORD STOPPER (U,J,C)
2-13	EZ-706949	CORD STOPPER (E,B,S)
2-14	EJ-343977	⚠ SOCKET OUTLET S2-724B-52 UJ 2×2P (U,J)
2-15	EJ-343979	⚠ SOCKET OUTLET S2-724B-02 C 2×2P (C)
2-16	EJ-343981	⚠ SOCKET OUTLET S2-792T-100 E 2P (E)
2-17	EJ-343982	⚠ SOCKET OUTLET CM-18 B 3P (B)
2-18	EJ-343983	⚠ SOCKET OUTLET CAT-100 S 3P (S)
2-19	ES-706968	⚠ SW SELECTOR (U) (SW7)
2-20	ES-708680	⚠ SW SELECTOR SDS3P (E) (SW8)

Symbol For Destination

U : Universal Area
C : Canada
J : Japan
E : Europe
B : UK
S : Australia

3. FINAL ASSEMBLY BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
3-1	BD-710055	PANEL FRONT BLK DT-110
3-2	BD-710056	PANEL FRONT-P BLK DT-110-P
3-3	BC-710048	CABINET
3-4	BC-710049	CABINET-P
3-5	SK-710050	KNOB SLIDE
3-6	SK-710051	KNOB SLIDE-P
3-7	SK-710052	KNOB PUSH
3-8	SK-706974	KNOB MODE
3-9	SK-710057	KNOB MODE-P
3-10	SA-710053	FOOT
3-11	ZS-416687	BID40×08STL CMT

Color Variation

NON : Silver
P : Pearl Shadow

II. MODEL DT-220

1. MAIN P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
1-1	BA-708833	PC MAIN BLK DT-220
1-IC1	EI-708834	IC MB88401-160M
1-IC2	EI-708793	IC MB3761
1-IC3to5	EI-708835	IC LB1241
1-IC6	EI-304657	IC TC4011BP
1-Q1	ET-299531	⚠ TR 2SB544MP E,F
1-Q2	ET-322778	TR 2SA608K-NP E,F,G
1-Q3	ET-324134	⚠ TR 2SA984K E,F
1-Q4	ET-309353	TR 2SC2274 E,F
1-Q5,6	ET-370607	TR 2SC536NP F
1-Q7to10	ET-322778	TR 2SA608K-NP E,F,G
1-Q11	ET-324134	TR 2SA984K E,F
1-Q12	ET-322778	TR 2SA608K-NP E,F,G
1-D1	ED-324912	⚠ D SILICON 1D4B41 200/1.0A
1-D2to5	ED-705986	D SILICON ERB12-04
1-D6	ED-700265	D ZENER RD6.2EB2
1-D7	ED-703903	D ZENER RD15E B2
1-D8	ED-708858	D ZENER RD8.2EB2
1-D9to24	ED-327057	D SILICON H DS442X
1-X1	EI-708841	OSC X'TAL 194304MHZ
1-C3	EC-325109	C EC V CUT SM 102M 50DC
1-C4	EC-316188	C EC V CUT SM 102 25DC
1-C9	EC-708837	C S-FIX 1ZW 10x53N
1-R19	ER-708845	R SD 105J
1-RA1	ER-708842	R COMP 473x5
1-RA2	ER-708843	R COMP 103x4
1-2	EZ-708808	BUZZER

2. SWITCH (A) P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
2-D25	ED-708771	D LED GL-4PG2 GRN
2-SW1to8	ES-708769	SW TACT
2-SW9to12	ES-708828	SW TACT

3. SWITCH (B) P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
3-D26	ED-708770	D LED GL-4PR92 RED
3-D27,28	ED-708771	D LED GL-4PG2 GRN
3-SW23to26	ES-708769	SW TACT

4. SWITCH (C) P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
4-D13to22	ES-708769	SW TACT

5. ASSEMBLY BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
		DISPLAY P.C BOARD BLOCK
5-1	BA-708832	PC IND FLD BLK DT-220
		ASSEMBLY BLOCK
5-2	BT-708818	⚠ TRANS POWER DT-220(J)
5-3	BT-708897	⚠ TRANS POWER DT-220(U)
5-4	BT-708899	⚠ TRANS POWER DT-220(E)
5-5	BT-708901	⚠ TRANS POWER DT-220(B)
5-6	EP-708819	⚠ RELAY
5-7	EF-708879	⚠ FUSE 250V T2.5A (E)
5-8	EF-708904	⚠ FUSE 250V T3.15A (B)
5-9	BZ-708821	CDS BLK DT-220
5-10	EZ-708839	BATTERY SNAP 2P
5-11	SP-708820	PANEL REAR DT-220(J)
5-12	SP-708898	PANEL REAR DT-220(U)
5-13	SP-708900	PANEL REAR DT-220(E)
5-14	SP-708902	PANEL REAR DT-220(B)
5-15	EW-306427	⚠ AC CORD 2 CORES KP-211, VFF J (J)
5-16	EW-306428	⚠ AC CORD 2 CORES KP-205A, VFF J (U)
5-17	EW-313882	⚠ AC CORD 2 CORES KP-419C, LTCE-2F E (E)
5-18	EW-313884	⚠ AC CORD 2 CORES GTBS-2F 24/0.20x2 B (B)
5-19	EZ-708784	STRAIN RELIEF
5-20	EJ-708764	⚠ SOCKET AC (J,U)
5-21	EJ-708876	⚠ SOCKET AC (E)
5-22	EJ-708903	⚠ SOCKET AC (B)
5-23	ES-708765	SW SLIDE (SW27)
5-24	ES-708870	SW SLIDE (VS1)
5-25	ES-708910	⚠ SW POWER (SW1)
5-26	EC-708844	⚠ C CE 103 125AC (J)
5-27	EC-708871	⚠ C CE 103 250AC (U)
5-28	EC-708880	⚠ C CE 103 250AC (E,B)
5-29	SA-708782	FOOT MF
5-30	SZ-708831	BATTERY COVER

Symbol For Destination

U : Universal Area
J : Japan
E : Europe
B : UK

When ordering parts, please quote Parts Number, Description and Model Number.

6. FINAL ASSEMBLY BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
6-1	BD-708812	PANEL FRONT BLK DT-220
6-2	BD-708905	PANEL FRONT BLK DT-220-P
6-3	SK-708814	KNOB MANUAL
6-4	SK-708907	KNOB MANUAL-P
6-5	SK-708815	KNOB TIMER
6-6	SK-708908	KNOB TIMER-P
6-7	SK-708754	KNOB PROGRAM SET
6-8	SK-708890	KNOB PROGRAM SET-P
6-9	SK-708813	KNOB SLEEP SET
6-10	SK-708906	KNOB SLEEP SET-P
6-11	SK-708758	KNOB STANDBY
6-12	SK-708894	KNOB STANDBY-P
6-13	SK-708755	KNOB TIMER SET
6-14	SK-708891	KNOB TIMER SET-P
6-15	SK-708756	KNOB SECOND SET
6-16	SK-708892	KNOB SECOND SET-P
6-17	SK-708751	KNOB FOWARD
6-18	SK-708887	KNOB FOWARD-P
6-19	SK-708757	KNOB REVERSE
6-20	SK-708893	KNOB REVERSE-P
6-21	SK-708752	KNOB MEMORIZE
6-22	SK-708888	KNOB MEMORIZE-P
6-23	SK-708753	KNOB CANCEL
6-24	SK-708889	KNOB CANCEL-P
6-25	SK-708817	KNOB PGM
6-26	SK-708909	KNOB PGH-P
6-27	SK-708759	KNOB PRGM/DISPLAY
6-28	SK-708896	KNOB PRGM/DISPLAY-P
6-29	SZ-708766	STOPPER KNOB
6-30	ZG-708823	SP KNOB (A)
6-31	ZG-708768	SP KNOB (B)
6-32	SZ-708824	STOPPER PGM KNOB
6-33	ZG-708825	SP PGM KNOB
6-34	SP-708742	CASE DT-320
6-35	SP-708895	CASE DT-320-P
6-36	ZS-316650	PAN40x08STL NI3
6-37	ZS-201778	PAN40x08STL BNI
6-38	ZS-609208	T2PAN30x08STL BNI

Color Variation

NON : Silver
P : Pearl Shadow

III. MODEL DT-320

1. MAIN P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
1-1	BA-708787	PC MAIN BLK DT-320
1-IC1	EI-708788	IC μPD7801G
1-IC2	EI-708790	IC TC4515BP
1-IC3to5	EI-708789	IC TC40H174BP
1-IC6to9	EI-336794	IC LB1240
1-IC10to13	EI-708791	IC M54519P
1-IC14	EI-304657	IC TC4011BP
1-IC15	EI-330391	IC TC4050BP
1-IC16	EI-708792	IC TC4584BP
1-IC17	EI-708793	IC MB3761
1-Q1	ET-708795	⚠ TR 2SC2078 D,E
1-Q2	ET-356984	TR 2SA564 R
1-Q3	ET-708796	TR 2SC828A E
1-Q4	ET-324134	⚠ TR 2SA984K E,F
1-Q5	ET-705981	TR 2SC945 P
1-Q6	ET-300044	TR 2SC2001 L
1-Q7	ET-332349	TR 2SD826 E,F,G
1-Q8	ET-356984	TR 2SA564 R
1-Q9	ET-319241	TR 2SC1815 Y
1-Q10	ET-356984	TR 2SA564 R
1-Q11	ET-319241	TR 2SC1815 Y
1-Q12,13	ET-708796	TR 2SC828A E
1-Q14	ET-356984	TR 2SA564 R
1-D1	ED-324912	⚠ D SILICON 1D4B41 200/1.0A
1-D2	ED-705986	D SILICON ERB12-04
1-D3	ED-708797	D ZENER RD6.2EB1
1-D4	ED-705986	D SILICON ERB12-04
1-D5	ED-708798	D ZENER RD9.1EB1
1-D6	ED-700265	D ZENER RD6.2EB2
1-D7	ED-708799	D SILICON ERA-81-004
1-D8	ED-708800	D ZENER RDJ5.1B3
1-D9to25	ED-327057	D SILICON H DS442X
1-L1	BT-708801	TRANS
1-X1	EI-708802	OSC X'TAL 4.19430MHZ
1-R17	ER-333013	R OMF H SNP FS 2W 3R9J
1-RA1	ER-708806	R COMP 473x5
1-RA3	ER-708806	R COMP 473x5
1-RA4	ER-708807	R COMP 473x4
1-C1	EC-322804	C EC V CUT SM 472M 16.0DC
1-C4	EC-316231	C EC V CUT SM 222M 35.0DC
1-C5	EC-323847	C EC V CUT SM 102M 35.0DC
1-C11	EC-708804	C S-FIX 200
1-C14	EC-708803	C TT 2R2M 16DC
1-2	EZ-708808	BUZZER

2. SWITCH (A) P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
2-D42,43	ED-708770	D LED GL-4PR92 RED
2-D44to49	ED-708771	D LED GL-4PG2 GRN
2-SW16to24	ES-708769	SW TACT

3. SWITCH (B) P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
3-D26,27	ED-708771	D LED GL-4PG2 GRN
3-D31	ED-708770	D LED GL-4PR92 RED
3-SW11to14	ES-708769	SW TACT

4. SWITCH (C) P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
4--D32to41	ED-708779	D LED GL-5PG5 GRN
4-SW1to10	ES-708769	SW TACT
4-SW15	ES-708769	SW TACT

5. LED P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
5-D28to30	ED-701084	D LED GL-9HY2

6. ASSEMBLY BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
	DISPLAY P.C BOARD BLOCK	
6-1	BA-708780	PC IND FLD BLK DT-320
	ASSEMBLY BLOCK	
6-2	BT-708760	⚠ TRANS POWER DT-320(J)
6-3	BT-708868	⚠ TRANS POWER DT-320(U)
6-4	BT-708872	⚠ TRANS POWER DT-320(E)
6-5	EP-708762	⚠ RELAY G4W-22125-A (J,U)
6-6	EP-708874	⚠ RELAY (E)
6-7	AX-708781	BATTERY
6-8	ED-708777	CDS
6-9	SP-708763	PANEL REAR DT-320(J)
6-10	SP-708869	PANEL REAR DT-320(U)
6-11	SP-708875	PANEL REAR DT-320(E)
6-12	EW-306427	AC CORD 2 CORES KP-211,VFF J (J)
6-13	EW-306428	AC CORD 2 CORES KP-205A,VFF J(U)
6-14	EW-313882	AC CORD 2 CORES KP-419C, LTCE-2F E (E)
6-15	EZ-708784	STRAIN RELIEF
6-16	EJ-708764	⚠ SOCKET AC (J,U)
6-17	EJ-708876	⚠ SOCKET AC (E)
6-18	ES-708765	SW SLIDE (J,U)(SW25)
6-19	ES-708870	SW SLIDE (VS1)
6-20	ES-708878	⚠ SW POWER (SW1)(E)
6-21	ES-708786	SW SLIDE (TUNER MODE)(SW26)
6-22	EJ-708785	DIN J
6-23	EF-708879	⚠ FUSE 250V T2.5A (E)
6-24	EC-708844	⚠ C CE 103 125AC (J)
6-25	EC-708871	⚠ C CE 103 250AC (U)
6-26	EC-708880	⚠ C CE 103 250AC (E)
6-27	SA-708782	FOOT MF

Symbol for Destination

U : Universal Area
J : Japan
E : Europe

7. FINAL ASSEMBLY BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
7-1	BD-708743	PANEL FRONT BLK DT-320
7-2	BD-708881	PANEL FRONT BLK DT-320-P
7-3	SK-708744	KNOB MANUAL (A+C)
7-4	SK-708882	KNOB MANUAL (A+C)-P
7-5	SK-708745	KNOB MANUAL (B+C)
7-6	SK-708883	KNOB MANUAL (B+C)-P
7-7	SK-708746	KNOB TIMER (A+C)
7-8	SK-708884	KNOB TIMER (A+C)-P
7-9	SK-708747	KNOB TIMER (B+C)
7-10	SK-708885	KNOB TIMER (B+C)-P
7-11	SK-708754	KNOB PROGRAM SET
7-12	SK-708890	KNOB PROGRAM SET-P
7-13	SK-708749	KNOB SLEEP (B+C)
7-14	SK-708886	KNOB SLEEP (B+C)-P
7-15	SK-708758	KNOB STANDBY
7-16	SK-708894	KNOB STANDBY-P
7-17	SK-708755	KNOB TIMER SET
7-18	SK-708891	KNOB TIMER SET-P
7-19	SK-708756	KNOB SECOND SET
7-20	SK-708892	KNOB SECOND SET-P
7-21	SK-708751	KNOB FOWARD
7-22	SK-708887	KNOB FOWARD-P
7-23	SK-708757	KNOB REVERSE
7-24	SK-708893	KNOB REVERSE-P
7-25	SK-708752	KNOB MEMORIZE
7-26	SK-708888	KNOB MEMORIZE-P
7-27	SK-708753	KNOB CANCEL
7-28	SK-708889	KNOB CANCEL-P
7-29	SK-708759	KNOB PRGM/DISPLAY
7-30	SK-708896	KNOB PRGM/DISPLAY-P
7-31	SK-708778	KNOB TIME/PRGM
7-32	SZ-708776	CDS WINDOW
7-33	SZ-708766	STOPPER KNOB
7-34	ZG-708767	SP KNOB (A)
7-35	ZG-708768	SP KNOB (B)
7-36	SP-708742	CASE DT-320
7-37	SP-708895	CASE DT-320-P
7-38	ZS-316650	PAN40x08STL NI3
7-39	ZS-201778	PAN40x08STL BNI
7-40	ZS-609208	T2PAN30x08STL BNI
7-41	EW-708810	CORD DIN

Color Variation

NON : Silver
P : Pearl Shadow

INDEX

1. MODEL DT-110

PARTS NO.	REF. NO.	PARTS NO.	REF. NO.	PARTS NO.	REF. NO.	PARTS NO.	REF. NO.
BC-710048	3-3	EI-708670	1-IC2	EW-306427	2-7		
BC-710049	3-4	EJ-343977	2-14	EW-306428	2-6		
BD-710055	3-1	EJ-343979	2-15	EW-313882	2-9		
BD-710056	3-2	EJ-343981	2-16	EW-313884	2-10		
BT-706964	2-2	EJ-343982	2-17	EZ-706949	2-13		
BT-706965	2-1	EJ-343983	2-18	EZ-706966	2-12		
BT-708674	2-3	EM-337179	1-FLT1	SA-710053	3-10		
BT-708675	2-4	EP-708677	1-RY1	SK-706974	3-8		
BT-708676	2-5	EP-708679	1-RY1	SK-710050	3-5		
EC-706953	1-TC1	EP-708681	1-RY1	SK-710051	3-6		
ED-306724	1-D1,2	ES-706960	1-S2	SK-710052	3-7		
ED-314698	1-ZD2	ES-706968	2-19	SK-710057	3-9		
ED-322772	1-D4	ES-708672	1-S1	ZS-416687	3-11		
ED-706952	1-ZD1	ES-708673	1-S3to6				
ED-708669	1-D3	ES-708680	2-20				
ED-708669	1-D5,6	ET-308867	1-TR2				
EF-708678	1-F1	ET-706954	1-TR1				
EF-708683	1-F1	ET-706957	1-CDS				
EI-706955	1-IC1	EW-201515	2-11				
EI-706958	1-X1	EW-305691	2-8				

2. MODEL DT-220

PARTS NO.	REF. NO.	PARTS NO.	REF. NO.	PARTS NO.	REF. NO.	PARTS NO.	REF. NO.
BA-708832	5-1	EI-708841	1-X1	SA-708782	5-29	SP-708898	5-12
BA-708833	1-1	EJ-708764	5-20	SK-708751	6-17	SP-708900	5-13
BD-708812	6-1	EJ-708876	5-21	SK-708752	6-21	SP-708902	5-14
BD-708905	6-2	EJ-708903	5-22	SK-708753	6-23	SZ-708766	6-29
BT-708818	5-2	EP-708819	5-6	SK-708754	6-7	SZ-708824	6-32
BT-708897	5-3	ER-708842	1-RA1	SK-708755	6-13	SZ-708831	5-30
BT-708899	5-4	ER-708843	1-RA2	SK-708756	6-15	ZG-708768	6-31
BT-708901	5-5	ER-708845	1-R19	SK-708757	6-19	ZG-708823	6-30
BZ-708821	5-9	ES-708765	5-23	SK-708758	6-11	ZG-708825	6-33
EC-316188	1-C4	ES-708769	2-SW1to8	SK-708759	6-27	ZS-201778	6-37
EC-325109	1-C3	ES-708769	3-SW23to26	SK-708813	6-9	ZS-316650	6-36
EC-708837	1-C9	ES-708769	4-D13to22	SK-708814	6-3	ZS-609208	6-38
EC-708844	5-26	ES-708828	2-SW9to12	SK-708815	6-5		
EC-708871	5-27	ES-708870	5-24	SK-708817	6-25		
EC-708880	5-28	ES-708910	5-25	SK-708887	6-18		
ED-324912	1-D1	ET-299531	1-Q1	SK-708888	6-22		
ED-327057	1-D9to24	ET-309353	1-Q4	SK-708889	6-24		
ED-700265	1-D6	ET-322778	1-Q2	SK-708890	6-8		
ED-703903	1-D7	ET-322778	1-Q7to10	SK-708891	6-14		
ED-705986	1-D2to5	ET-322778	1-Q12	SK-708892	6-16		
ED-708770	3-D26	ET-324134	1-Q3	SK-708893	6-20		
ED-708771	2-D25	ET-324134	1-Q11	SK-708894	6-12		
ED-708771	3-D27,28	ET-370607	1-Q5,6	SK-708896	6-28		
ED-708858	1-D8	EW-306427	5-15	SK-708906	6-10		
EF-708879	5-7	EW-306428	5-16	SK-708907	6-4		
EF-708904	5-8	EW-313882	5-17	SK-708908	6-6		
EI-304657	1-IC6	EW-313884	5-18	SK-708909	6-26		
EI-708793	1-IC2	EZ-708784	5-19	SP-708742	6-34		
EI-708834	1-IC1	EZ-708808	1-2	SP-708820	5-11		
EI-708835	1-IC3to5	EZ-708839	5-10	SP-708895	6-35		

INDEX

3. MODEL DT-320

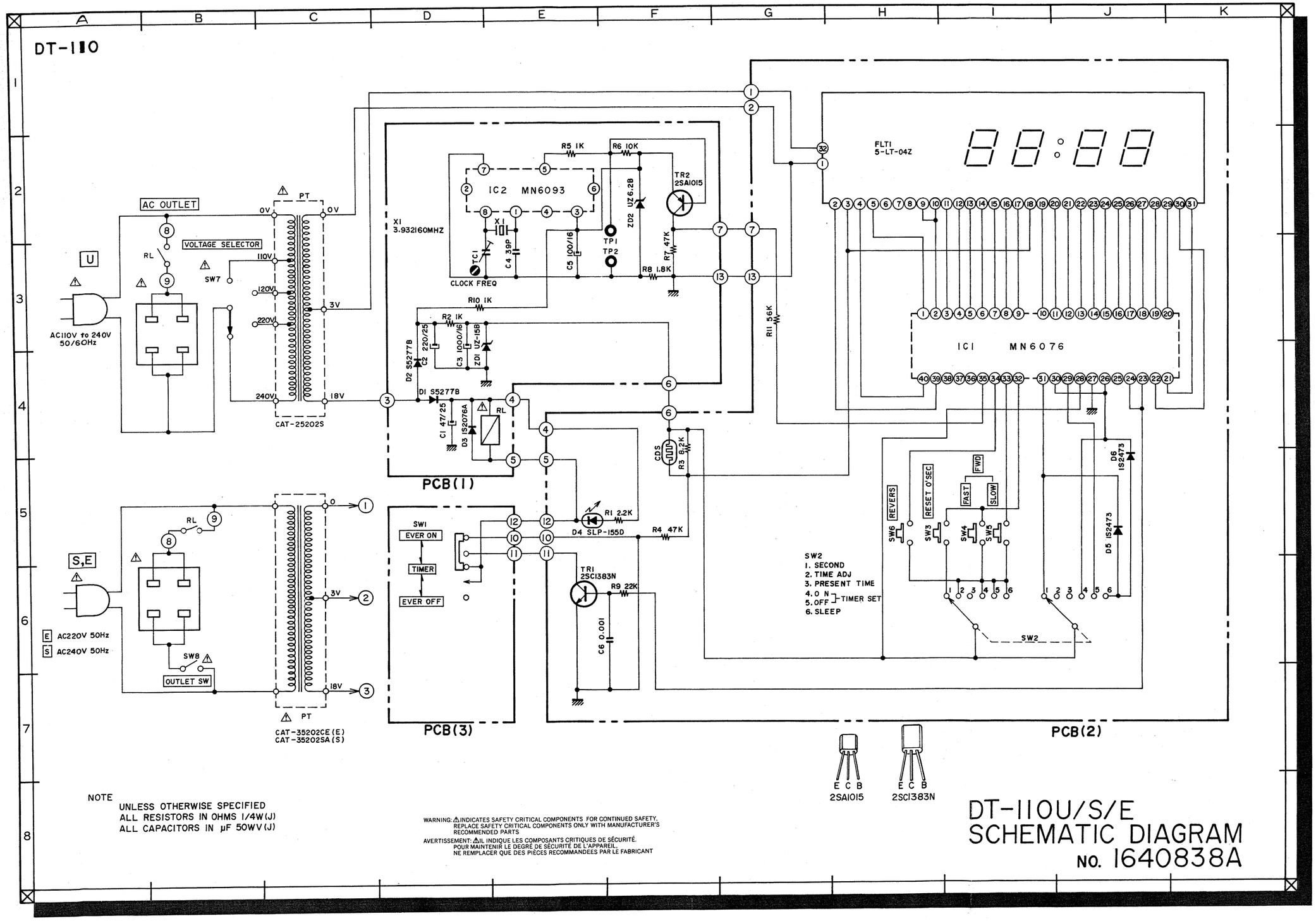
PARTS NO.	REF. NO.	PARTS NO.	REF. NO.	PARTS NO.	REF. NO.	PARTS NO.	REF. NO.
AX-708781	6-7	EI-708791	1-IC10to13	SA-708782	6-27	ZS-316650	7-38
BA-708780	6-1	EI-708792	1-IC16	SK-708744	7-3	ZS-609208	7-40
BA-708787	1-1	EI-708793	1-IC17	SK-708745	7-5		
BD-708743	7-1	EI-708802	1-X1	SK-708746	7-7		
BD-708881	7-2	EJ-708764	6-16	SK-708747	7-9		
BT-708760	6-2	EJ-708785	6-22	SK-708749	7-13		
BT-708801	1-L1	EJ-708876	6-17	SK-708751	7-21		
BT-708868	6-3	EP-708762	6-5	SK-708752	7-25		
BT-708872	6-4	EP-708874	6-6	SK-708753	7-27		
EC-316231	1-C4	ER-333013	1-R17	SK-708754	7-11		
EC-322804	1-C1	ER-708806	1-RA1	SK-708755	7-17		
EC-323847	1-C5	ER-708806	1-RA3	SK-708756	7-19		
EC-708803	1-C14	ER-708807	1-RA4	SK-708757	7-23		
EC-708804	1-C11	ES-708765	6-18	SK-708758	7-15		
EC-708844	6-24	ES-708769	2-SW16to24	SK-708759	7-29		
EC-708871	6-25	ES-708769	3-SW11to14	SK-708778	7-31		
EC-708880	6-26	ES-708769	4-SW1to10	SK-708882	7-4		
ED-324912	1-D1	ES-708769	4-SW15	SK-708883	7-6		
ED-327057	1-D9to25	ES-708786	6-21	SK-708884	7-8		
ED-700265	1-D6	ES-708870	6-19	SK-708885	7-10		
ED-701084	5-D28to30	ES-708878	6-20	SK-708886	7-14		
ED-705986	1-D2	ET-300044	1-Q6	SK-708887	7-22		
ED-705986	1-D4	ET-319241	1-Q9	SK-708888	7-26		
ED-708770	2-D42,43	ET-319241	1-Q11	SK-708889	7-28		
ED-708770	3-D31	ET-324134	1-Q4	SK-708890	7-12		
ED-708771	2-D44to49	ET-332349	1-Q7	SK-708891	7-18		
ED-708771	3-D26,27	ET-356984	1-Q2	SK-708892	7-20		
ED-708777	6-8	ET-356984	1-Q8	SK-708893	7-24		
ED-708779	4-D32to41	ET-356984	1-Q10	SK-708894	7-16		
ED-708797	1-D3	ET-356984	1-Q14	SK-708896	7-30		
ED-708798	1-D5	ET-705981	1-Q5	SP-708742	7-36		
ED-708799	1-D7	ET-708795	1-Q1	SP-708763	6-9		
ED-708800	1-D8	ET-708796	1-Q3	SP-708869	6-10		
EF-708879	6-23	ET-708796	1-Q12,13	SP-708875	6-11		
EI-304657	1-IC14	EW-306427	6-12	SP-708895	7-37		
EI-330391	1-IC15	EW-306428	6-13	SZ-708766	7-33		
EI-336794	1-IC6to9	EW-313882	6-14	SZ-708776	7-32		
EI-708788	1-IC1	EW-708810	7-41	ZG-708767	7-34		
EI-708789	1-IC3to5	EZ-708784	6-15	ZG-708768	7-35		
EI-708790	1-IC2	EZ-708808	1-2	ZS-201778	7-39		

SECTION 3

SCHEMATIC DIAGRAM

1. DT-110U/S/E NO. 1640838A SCHEMATIC DIAGRAM 29
2. DT-110J/C NO. 1641430A SCHEMATIC DIAGRAM 30
3. DT-220 NO. 1641432A SCHEMATIC DIAGRAM 31
4. DT-320 NO. 1641434A SCHEMATIC DIAGRAM 32

DT-110



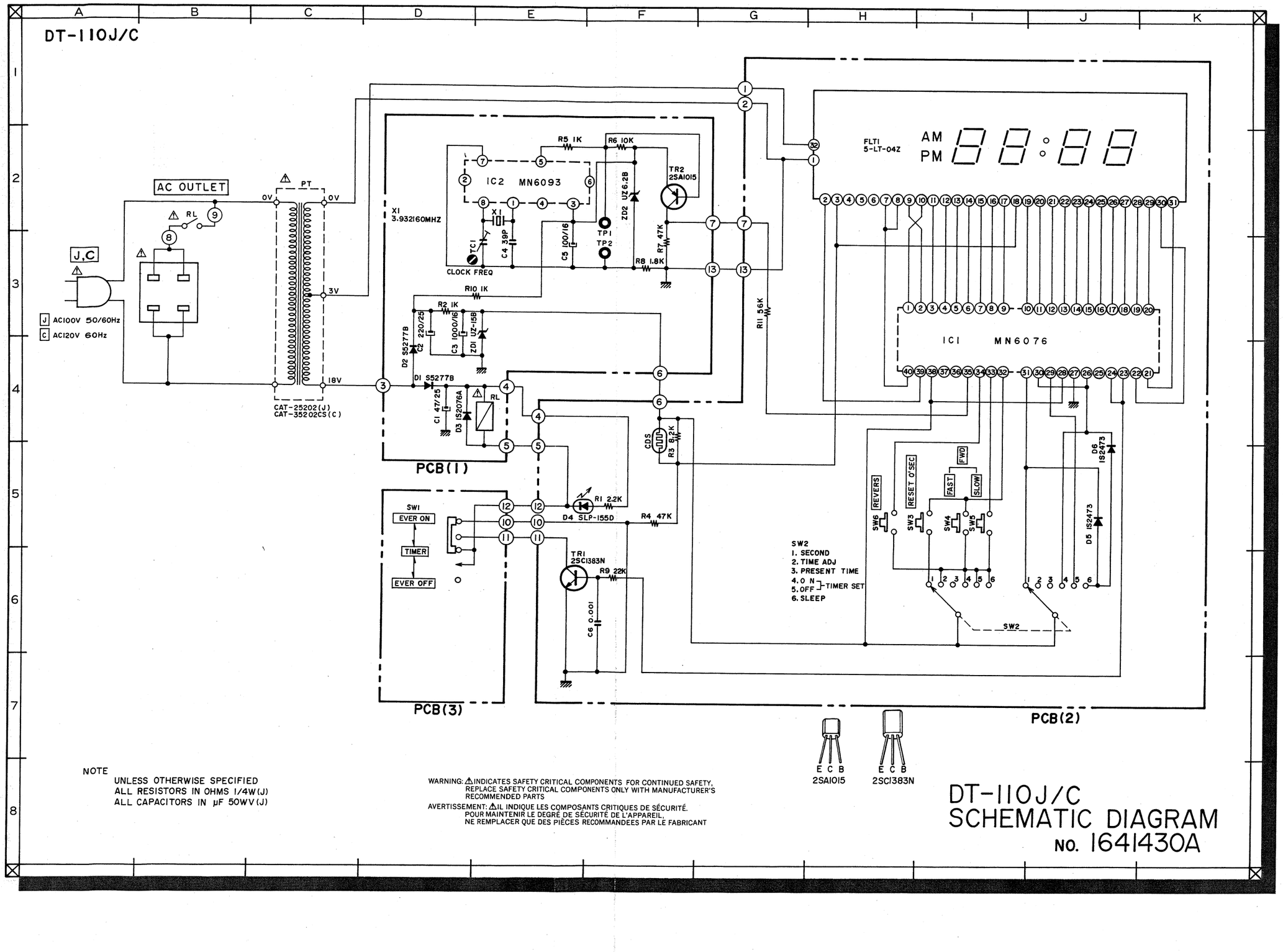
NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W(J)
ALL CAPACITORS IN μF 50WV(J)

WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT

DT-110U/S/E SCHEMATIC DIAGRAM NO. 1640838A

DT-110J/C



NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W(J)
ALL CAPACITORS IN μF 50WV(J)

WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

DT-110J/C SCHEMATIC DIAGRAM NO. 1641430A

DT-220

SWITCH PCB(A) G4-50078
(B) G4-50097
(C) G4-50080

DISPLAY PCB G4-50081

SWITCH PCB(A) G4-50078
(B) G4-50097

13-MT-01ZK

IC5 LB1241

IC4 LB1241

IC3 LB1241

IC1 MB8840I

IC2 MB3761

ID4B41

IC6 TC4011BP (7:-5V, 14:0V)

TR7 to TR10 2SA608

MAIN PCB G3-5056

( )INDICATES VOLTAGE AT RELAY "ON"

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W(J)
ALL CAPACITORS IN μF 50 WV(J)

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT

E C B
2SA608
2SA984
2SC536
2SC2274

E C B
2SB544

DT-220
SCHEMATIC DIAGRAM
NO. 1641432A

DT-320

SWITCH PCB (A) G4-50061
(B) G4-50062
(C) G4-50064

DISPLAY PCB
G4-50065

LED PCB
G4-50063

SWITC PCB(A) G4-50061
(B) G4-50062
(C) G4-50064

MAIN PCB G3-5054A

WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT

NOTES
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W (J)
ALL CAPACITORS IN μF 50 WV (J)

DT-320
SCHEMATIC DIAGRAM
NO. 1641434A

DT-320

SWITCH PCB (A) G4-50061
(B) G4-50062
(C) G4-50064

DISPLAY PCB
G4-50065

LED PCB
G4-50063

SWITC PCB(A) G4-50061
(B) G4-50062
(C) G4-50064

MAIN PCB G3-5054A

2SA564A
2SA984A
2SC829A
2SC945
2SC1815
2SC2001

2SC2078

2SD826

WARNING: △INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: △IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT

NOTES
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W(J)
ALL CAPACITORS IN μF 50 WV (J)

DT-320
SCHEMATIC DIAGRAM
NO. 1641434A